BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Estimate Cost Rs. 100.00 Lakhs

Name of Work: Improvement of road and drains at Attur in ward no-03.

Sl No	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
1	Earth work excavation by manual means in Hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH chapter 3. No. 138/ Item No. 19.1/ PWD SR 2015-16	Cum							
	Berm cutting &over burden earth cutting:- 10th main L/side		1	215.00	1.20	0.20	51.60		
	R/Side		1	215.00	1.00	0.20	43.00		
	L/Side		1	150.00	1.00	0.15	22.50		
	11th main		1	215.00	1.20	0.20	51.60		
	C/Road:-L/side		1	40.00	1.00	0.20	8.00		
	R/side		1	40.00	1.50	0.20	12.00		
			1	15.00	1.50	0.20	4.50		
	Road levelling:-10th main		1	220.00	4.50	0.35	346.50		
			1	150.00	2.50	0.30	112.50		
	11th main		1	215.00	4.20	0.35	316.05		
	Doddabettahalli Help line center near temple surrounding		1	30.00	30.00	0.45	405.00		
			1	35.00	20.00	0.45	315.00		
			1	25.00	7.00	0.45	78.75		
			1	20.00	7.00	0.45	63.00		
	C/Road		1	40.00	4.70	0.35	65.80		
			1	15.00	4.60	0.35	24.15		
							1919.95		
	Deductions:-Chamber		1	2.00	1.80	0.35	1.26		
	Trees		2	1.80	1.80	0.45	2.92		
	Temple		1	9.00	6.00	0.45	24.30		
			1	4.50	3.70	0.45	7.49		
							35.97		
							1883.98	115.56	217712.90
	Basic Rate	107.00							
	Area Weightage @ 8%	8.56							
	Total RS	115.56							
2	KSRRB M300-53 : Construction of embankment with approved material Gravel/Murrum with all lifts and leads, trasnporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications (which includes cost of gravel / murrum, watering charges & compaction by vibratory roller) MORTH Specification No. 305. (Page No. 144 & Item No. 19.60)	Cum							
	CC Road portion:-10th main		1	150.00	2.50	0.30	112.50		

	11th main		1	215.00	4.20	0.35	316.05		
	Doddabettahalli Help line center near temple surrounding		1	60.00	4.00	0.35	84.00		
	Front		1	20.00	15.00	0.35	105.00		
	C/Road		1	40.00	4.50	0.30	54.00		
			1	15.00	4.00	0.30	18.00		
							689.55		
	Deductions :-Chamber		1	2.00	1.80	0.35	1.26		
	Trees		2	1.80	1.80	0.35	2.27		
	Temple portion		1	9.00	6.00	0.35	18.90		
			1	4.50	3.70	0.35	5.83		
							28.26		
							661.29	311.04	205689.04
	Basic Rate	288.00							
	Area Weightage @ 8%	23.04							
	Total RS	311.04							
3	KSRB 2-2.2 : Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5m , in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. specification, specification. No. KBS 2.1(b) / 2.3.5, No. 5/ Item No. 2.4/ PWD SR 2015-	Cum							
	Culverts:-10th main		2	4.50	1.30	1.00	11.70		
			2	4.00	1.30	1.00	10.40		
	11th main		2	4.50	1.30	1.00	11.70		
			1	6.50	1.30	1.00	8.45		
	Rcc drain:-10th main R/side		1	215.00	1.00	0.80	172.00		
	10th main L/side		1	150.00	1.00	0.80	120.00		
	11th main L/side		1	210.00	1.00	0.80	168.00		
	BBMP Helpline centre Cross road		1	35.00	1.00	0.80	28.00		
							530.25		
	Deductions for culverts portion:-10th main		2	4.50	1.00	0.80	7.20		
	11th main		2	4.50	1.00	0.80	7.20		
							14.40		
							515.85	288.36	148750.51
	Basic Rate	267.00							
	Area Weightage @ 8%	21.36							
	Total RS	288.36							

4	KSRB 4-1.3:Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @0.57cum machine mixed,machine mixed,concrete laid in layers not exeeding 15cms.thick, well compacted in foundation,including cost of all materials,labour,HOM of machinery,curing complete as per specifications.Specification no KBS4.1,4.2(Item no 4.3,Page no12,PWD SR 2015-16)								
	Culverts:-10th main		2	4.50	1.20	0.15	1.62		
			2	4.00	1.20	0.15	1.44		
	11th main		2	4.50	1.20	0.15	1.62		
			1	6.50	1.20	0.15	1.17		
	Rcc drain:-10th main R/side		1	218.00	0.90	0.15	29.43		
	10th main L/side		1	150.00	0.90	0.15	20.25		
	11th main L/side		1	210.00	0.90	0.15	28.35		
	BBMP Helpline centre.Cross road		1	35.00	0.90	0.15	4.73		
	cc road:-10th main		1	150.00	2.50	0.15	56.25		
	11th main		1	215.00	4.30	0.15	138.68		
	Doddabettahalli Help line center near temple surrounding		1	60.00	4.00	0.15	36.00		
	Front		1	20.00	15.00	0.15	45.00		
	C/Road		1	40.00	4.60	0.15	27.60		
			1	15.00	4.50	0.15	10.13		
							402.26		
	Deductions for culverts portion:-10th main		2	4.50	1.00	0.15	1.35		
	11th main		2	4.50	1.00	0.15	1.35		
	Chamber		1	2.00	1.80	0.15	0.54		
	Trees		2	1.80	1.80	0.15	0.97		
	Temple portion		1	9.00	6.00	0.15	8.10		
			1	4.50	3.70	0.15	2.50		
							14.81		
							387.45	5070.60	1964581.15
	Basic Rate	4695.00							
	Area Weightage @ 8%	375.60							
	Total RS	5070.60							
5	KSRB 4.2.2 : Providing and laying in position Reinforced cement concrete of design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.460cum with superplastesisre @ 3lts conforming etc as per specification&direction of the engineer incharge of work (pwd sr2015-16,p.no13,sno4.11)	Cum							
	Culverts Bottom concrete:-10th main		2	4.50	1.20	0.30	3.24		
			2	4.00	1.20	0.30	2.88		
	11th main		2	4.50	1.20	0.30	3.24		

			1	6.50	1.20	0.30	2.34		
	Side walls		4	4.50	0.25	0.70	3.15		
			4	4.00	0.25	0.70	2.80		
			4	4.50	0.25	0.70	3.15		
			2	6.50	0.25	0.70	2.28		
	Deck slabs		2	4.50	1.00	0.25	2.25		
			2	4.00	1.00	0.25	2.00		
			2	4.50	1.00	0.25	2.25		
			1	6.50	1.00	0.25	1.63		
	Rcc drain bottom concrete:-10th main R/side		1	218.00	0.90	0.15	29.43		
	10th main L/side		1	150.00	0.90	0.15	20.25		
	11th main L/side		1	210.00	0.90	0.15	28.35		
	BBMP Helpline centre Cross road		1	35.00	0.90	0.15	4.73		
	Side walls		2	218.00	0.15	0.60	39.24		
			2	150.00	0.15	0.60	27.00		
			2	210.00	0.15	0.60	37.80		
			2	35.00	0.15	0.60	6.30		
							224.30		
	Deductions for culverts portion:-10th main		2	4.50	0.90	0.15	1.22		
	11th main		2	4.50	0.90	0.15	1.22		
			4	4.50	0.15	0.60	1.62		
			4	4.50	0.15	0.60	1.62		
							5.67		
							218.63	6198.12	1355063.99
	Basic Rate	5739.00							
	Area Weightage @ 8%	459.12							
	Total RS	6198.12							
6	KSRB 4.9.2: Providing T.M.T. steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per specifications.Specification noKBS 4.6.3,TMT bars Fe55 0(pwd sr2015-16,p.no17,s.no4.46)	Tonne's							
	0.093 tonne / cum						20.33		
							20.33	70509.96	1433617.32
	Basic Rate	65287.00							
	Area Weightage @ 8%	5222.96							
	Total RS	70509.96							
7	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, attached pilasters,bittresses,buttresses plinth and string course including cost of all materials,labour complete asperspecificationS.Specification no.KBS 4.6.2(pwd sr2014-15,p.no15/4.31)	Sqm							
	Culverts Side walls:-		8	4.50		0.70	25.20		
			8	4.00		0.70	22.40		

			8	4.50		0.70	25.20		
			4	6.50		0.70	18.20		
	Deck slab		2	4.50	0.60		5.40		
			2	4.00	0.60		4.80		
			2	4.50	0.60		5.40		
			1	6.50	0.60		3.90		
	RCC Drain Side walls:-		4	215.00		0.60	516.00		
			4	150.00		0.60	360.00		
			4	210.00		0.60	504.00		
			4	35.00		0.60	84.00		
							1574.50	306.72	482930.64
	Basic Rate	284.00							
	Area Weightage @ 8%	22.72							
	Total RS	306.72							
8	KSRB M2200-5.11.Design mix M20 with OPC cement @320 kgs,with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @0.460cum with superplastesisre @ 3lts conforming to IS9103-1999 Reaffirmed-2008.etc as per specification&direction of the engineer incharge of work (pwd sr2015-16,p.no216,sno28.7.9)	Sqm							
	CC Road portion:-10th main		1	150.00	2.50	0.125	46.88		
	11th main		1	215.00	4.30	0.125	115.56		
	Doddabettahalli Help line center near temple surrounding		1	60.00	4.00	0.125	30.00		
	Front		1	20.00	15.00	0.125	37.50		
	C/Road		1	40.00	4.90	0.125	24.50		
			1	15.00	4.60	0.125	8.63		
	Rcc drain:-gap filling10 thmain R/S		1	218.00	0.10	0.20	4.36		
	10th main L/side		1	150.00	0.10	0.20	3.00		
	11th main L/side		1	210.00	0.10	0.20	4.20		
	Culverts:-Approaches10th main		2	4.50	0.50	0.15	0.68		
			2	4.00	0.45	0.15	0.54		
	11th main		2	4.50	0.35	0.15	0.47		
							276.31		
	Deductions:-Chamber		1	2.00	1.80	0.125	0.45		
	Trees		2	1.80	1.80	0.125	0.81		
							1.26		
							275.05	6732.72	1851834.64
	Basic Rate	6234.00							
	Area Weightage @ 8%	498.72							
	Total RS	6732.72							
9	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator,HOM of machinery screed vibratory,power floater,blade and disk etc,,with all lead and lift etc as per specifications .(P.NO171/22.7)	Sqm							
	CC Road portion:-10th main		1	150.00	2.50		375.00		
	11th main		1	215.00	4.30		924.50		

	Doddabettahalli Help line center near temple surrounding		1	60.00	4.00		240.00		
	Front		1	20.00	15.00		300.00		
	C/Road		1	40.00	4.80		192.00		
			1	15.00	4.60		69.00		
							2100.50	97.20	204168.60
	Basic Rate	90.00							
	Area Weightage @ 8%	7.20							
	Total RS	97.20							
10	Providing groove cutting for width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine,generator&HOM of machinery,including cost of blade,coolant etc as per specifications as per specifications.(p.no172/22.80)	Rmtr							
	CC Road portion:-10th main		32	2.50			80.00		
	11th main		45	4.30			193.50		
	Doddabettahalli Help line center near temple surrounding		10	4.00			40.00		
	Front		6	15.00			90.00		
	C/Road		8	4.80			38.40		
			3	4.60			13.80		
	Basic Rate	115.00					**455.70**	124.20	56597.94
	Area Weightage @ 8%	9.20							
	Total RS	124.20							
11	Providing and fixing Precast RCC Slabs as Per approved design, specification and Direction Engineer-in-Charge. (Approved Data Rate).	Sqm							
	Rcc drain:-10th main R/side		1	218.00	0.75		163.50		
	10th main L/side		1	150.00	0.75		112.50		
	11th main L/side		1	210.00	0.75		157.50		
	BBMP Helpline centre Cross road		1	35.00	0.90		31.50		
	Missing slabs in Attur layout surrounding area		80	0.90	0.60		43.20		
			40	0.75	0.60		18.00		
							526.20		
	Culverts portion:-10th main		2	4.50	0.75		6.75		
	11 th main		2	4.50	0.75		6.75		
							13.50		
							512.70	2100.00	1076670.00
12	KSRRB M100-1 Loading and un loading of stone boulder/Stone aggregates/ sand/kanker/ Moorum.KSRRB M100-1:Placing tipper at loading point,loading with front end loader,dumping,turning for return trip,excluding time for haulage and return trip complete as per specifications(Item no17.1,Page no130,PWD SR 2015-16	Cum							
			Vide Item No. 1+3				2399.83		
	Basic Rate	68.00					**2399.83**	73.44	176243.63
	Area Weightage @ 8%	5.44							
	Total RS	73.44						**Total RS**	**9173860.35**
13	Add 9% OF KRIDL CHARGES								825647.43

14	Miscelanious and Unforgen Charges	L/S							499.14
								Grand total RS	10000000.00

(Rupees one Hundred lakhs Only)

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per C.S.R. of 2015-16 and Approved Rates.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward no-03

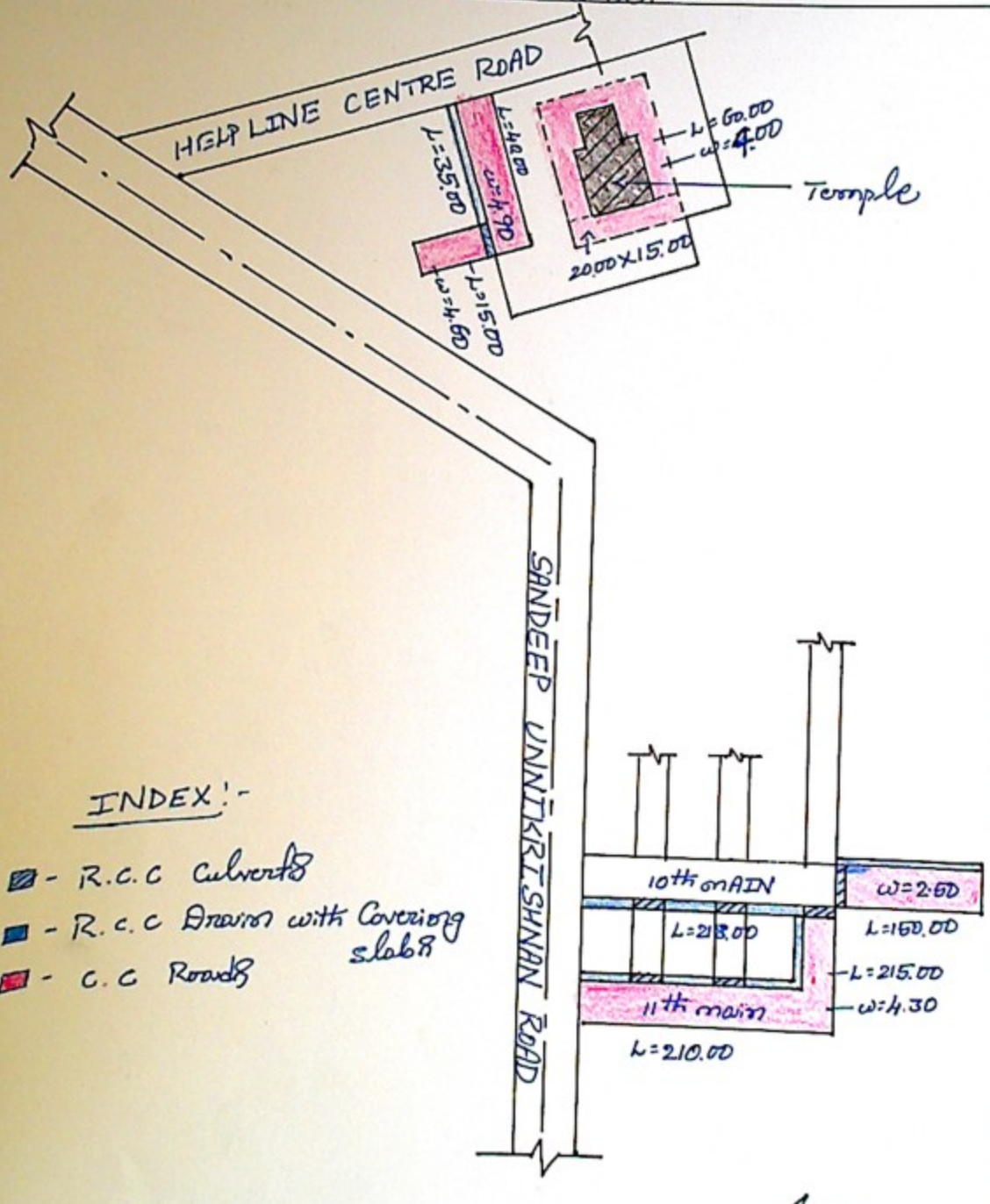
Executive Engineer
Bruhat Bangalore Mahanagara Palike

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike

...inistrative Sanction for Rs. 100.00 lack
Hundred Lakhs only
... accorded under head 3111 - 2016-17
...egistered as CE No. ... Subject
... conditions contained in
No. CE/YNK/AS/21/16-17 27-01-2017
Executive Engineer

Technical Sanction
Accorded For 100.00 lakhs
Head of A/C 3111
CER NO : ..... **Dt:** 27-01-17
TA to CE (YNK)

Name of work:- Improvements of roads and drains at Athur ward NO-03.



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- R.C.C Drains with Covering slabs
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Checked by AE-03

AEE